
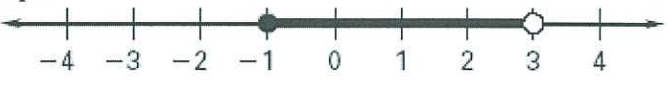


Name: _____ TP: _____

Failure to show all work and write in complete sentences will result in LaSalle.

<p>1a) Solve and graph: $2m \geq -14$ what operation holds 2m together?</p> <p>b) Do you need to flip the inequality symbol? Why or why not? COMPLETE SENTENCE!</p>	<p>2a) Solve and graph: $2(-2x - 8) - 30 > 50$ * #s to the right * You'll need to combine like terms.</p> <p>b) Do you need to flip the inequality symbol? Why or why not?</p>
<p>3) Solve and graph: $-6 + \frac{f}{4} > -5$ * #s to the right!</p> <p>b) Do you need to flip the inequality symbol? Why or why not?</p>	<p>4) Solve and graph: $\frac{-8y + 4}{2} \leq -10$ what operation holds the 2? What's a fraction?</p> <p>b) Do you need to flip the inequality symbol? Why or why not?</p>
<p>5a) Write an inequality that is represented by the graph.</p>  <p style="text-align: center;">_____</p> <p>b) Graph the inequality that represents $-2 < x < 7$</p>	<p>6) Write an inequality that is represented by the graph.</p>  <p style="text-align: center;">_____</p> <p>b) Graph the inequality that represents $0 \geq x$ or $x > 4$ Make sure the variable is on the right.</p>

Give me a Z! G'me an ESTY! PUT IT TOGETHER! ZESTY!

7) If

$$-102 = 6(-2 + 5k)$$

then $-4k = ?$ *It's All about directions! Don't forget this last step!*

8) If

$$7 = k - 3 + 6$$

then $0.5k - 2 = ?$

**Always check to see if you can combine like terms.*

9) **Error Analysis.** Describe and correct the mistake made below:

$$\begin{array}{r} x - 2 - 6x = 4 - 7x \\ -x \quad -x \quad -x \\ \hline -2 - 7x = 4 - 8x \\ +8x \quad +8x \\ \hline -2 + x = 4 \\ +2 \quad +2 \\ \hline x = 6 \end{array}$$

10) **ACT!!** *Make sure you put parentheses around (-3)*
If $x = -3$, what is the value of $\frac{x^2 - 1}{x + 1}$?

- F. -4
- G. -2
- H. 2
- J. $3\frac{2}{3}$
- K. 5

11) **ACT!!**

Mr. Jones earns a total of \$320 each week at his job in Shaba's Supermarket. If 18% of his pay is withheld for taxes, insurance, and other deductions, what is his take-home pay each week?

- A. \$ 57.60
- B. \$262.40
- C. \$300.50
- D. \$320.00
- E. \$338.00

*① % → decimal & multiply
② "withheld"... should you add or subtract from the total?*

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1)

If $\frac{4}{3}x > -1$, what is the set of all possible values of x ?

F. $x > -\frac{3}{4}$

G. $x > \frac{4}{3}$

H. $x < -\frac{4}{3}$

J. $x < -\frac{3}{4}$

K. $x < \frac{4}{3}$

**What holds $\frac{4}{3} \leq x$ together? Do the opposite operation!*

$\frac{4}{3}x > -1$

2)

7. If $2(x - 5) = -11$, then $x = ?$

A. $-\frac{21}{2}$

B. -8

C. $-\frac{11}{2}$

D. -3

E. $-\frac{1}{2}$

3)

Water in Lake Forman is frozen at Celsius temperatures at or below 0° . Which of the following expressions represents all the Celsius temperatures, T , at which water is frozen in Lake Forman?

A. $T = 0$

B. $T > 0$

C. $T \geq 0$

D. $T < 0$

E. $T \leq 0$

*AT or BELOW 0° .
What inequality symbol represents this?*

4)

What value of x makes the equation $7x - 3(2x - 4) = 10$ true?

F. -12

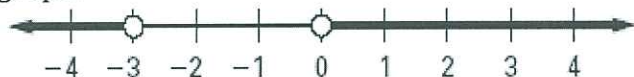
G. -2

H. $-\frac{2}{13}$

J. $\frac{22}{13}$

K. 22

5a) Write an inequality that is represented by the graph.



b) Is $x = -1$ a solution? Why or why not?

c) Is $x = 0$ a solution? Why or why not?

complete sentence!

6) If **variables to one side, #s to the other.*
 $2x - 5 = -5x + 8x$
then $2x = ?$

7) Solve and graph:

$$-10 + \frac{x}{5} \leq -12$$

Move what is outside the box 1st.

8) Solve and graph:

$$1 \leq \frac{n-8}{8}$$

What holds top & bottom together? UNDO IT!

9) **WRITE MATH!** Do not solve the inequality below. Instead, write out scripted steps that explain to someone how to solve and graph the inequality.

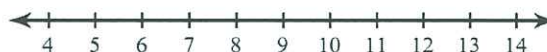
$$1 - 4a - 8a \leq -23$$



10) Solve: $\frac{3}{4}x + 1 < 10$ (keep answer in fraction form). Move what's outside the box 1st.

11) Solve and graph:

$$-9(7 + x) < -171$$



*Look @ #1 if you need help.

Be CAREFUL w/ the last step!

12) **ACT!!**

If $r = 7$, $b = 4$, and $g = -8$, what does $(r + b - g)(b + g)$ equal?

- A. -76
- B. -12
- C. 12
- D. 15
- E. 76

$(r+b-g)(b+g)$
EVALUATE • EVALUATE

13) **ACT!!**

The shipping costs for the Acme Furniture Company increased by 60% because the company moved. If it cost Acme \$80 to ship some furniture before the company moved, how much would it cost to ship the same furniture after the move?

- A. \$ 48.00
- B. \$ 84.80
- C. \$108.00
- D. \$128.00
- E. \$140.00

• % → decimal
• "increased"... add or sub?

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Form A

HW78: Introduction to Slope

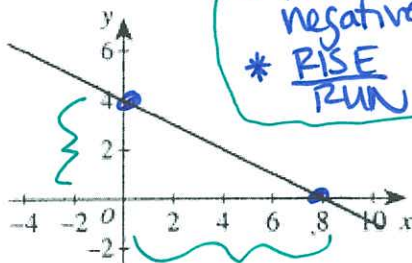
Geometry

Due Date: Monday, March 17th 2014

Failure to show all work and write in complete sentences will result in LaSalle.

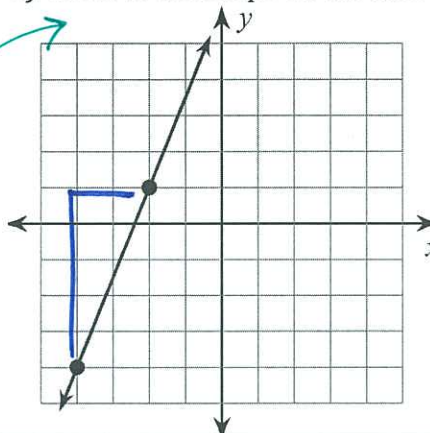
- 1) One of the following is the slope of the line graphed in the standard (x,y) coordinate plane below. Which one is it?

- F. -8
G. $-\frac{1}{2}$
H. $\frac{1}{2}$
J. 2
K. 4

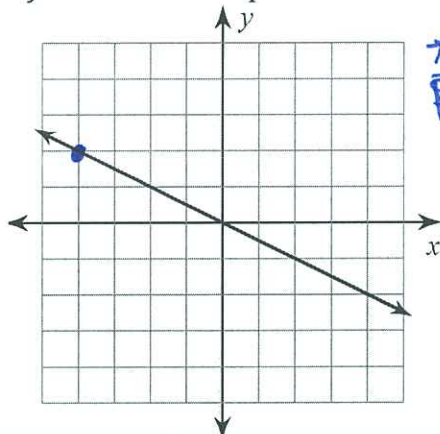


* Positive or negative?
* RISE
RUN

- 2) What is the slope of the line below:



- 3) What is the slope of the line below:

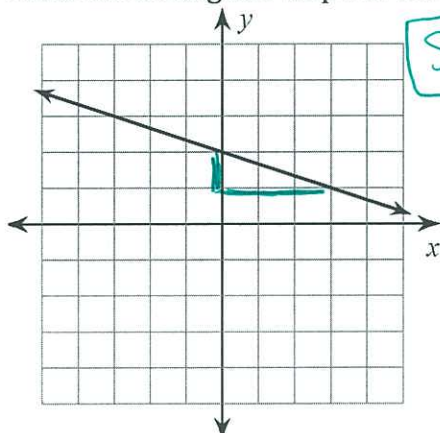


* Draw your points 1st!

- 4a) Sketch a line with a slope of zero:

- b) Sketch a line with an undefined slope:

- 5) **Error Analysis.** Describe and correct the error made in finding the slope of the line below.



Slope = -3

- 6) **Error Analysis.** Describe and correct the error made in finding the slope from the two ordered pairs below.

$(-1, 18), (8, -17)$
 $x_1 \ y_1 \ x_2 \ y_2$

$$\frac{-17 - 18}{-1 - 8} = \frac{-35}{-9} = \frac{35}{9} = \text{slope}$$

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<p>7) 9) What is the value of $2x^2 - 3x - 4$ when $x = -2$?</p> <p>A. -18 B. -6 C. -2 D. 6 E. 10</p> <p><i>Handwritten: $2(x)^2 - 3(x) - 4$</i></p>	<p>8) Which of the following is equivalent to $4(3x - 1) < 7x + 2(x + 4)$?</p> <p>F. $x < \frac{4}{3}$ G. $x = \frac{4}{3}$ H. $x < \frac{8}{3}$ J. $x < 4$ K. $x = 4$</p> <p><i>Handwritten: ① Distribute is! Then variables to one side & #s to the other. ② What answer choices can you cross off?</i></p>
<p>9) For all y: $26y - (-10y) - 3y(-y + 3) = ?$</p> <p>A. $10y$ B. $-3y^2 + 25y$ C. $3y^2 + 7y$ D. $3y^2 + 25y$ E. $3y^2 + 27y$</p> <p><i>Handwritten: $26y - (-10y) - 3y(-y + 3)$ $26y + 10y + \quad -$</i></p>	<p>10) If $x = -3$ is one solution of the equation $x^2 - kx - 24 = 0$, what is the value of k?</p> <p>A. 5 B. 8 C. -5 D. -21 E. -27</p> <p><i>Handwritten: $()^2 - k() - 24 = 0$</i></p> <p><i>Handwritten: ① Substitute in $x = -3$ ② Simplify & then solve for k!</i></p>
<p>11) Mrs. Dorgan's gross monthly income is <u>\$1,800</u>. If <u>15%</u> is withheld for income taxes, how much is Mrs. Dorgan's take-home pay?</p> <p><i>Handwritten: ① % → decimal ② "withheld"... add or subtract?</i></p>	<p>12) A shirt that originally cost <u>\$35</u> is on sale at <u>20%</u> off. If the <u>sales tax</u> on shirts is <u>5%</u> of the <u>purchase price</u>, how much would it cost to buy the shirt at its sale price?</p> <p><i>Handwritten: Step 1 Step 2</i></p> <p>A. \$7.35 B. \$20.00 C. \$26.60 D. \$29.40 E. \$29.75</p> <p><i>Handwritten: TOTAL: [] "sale" ... + or -? "tax" ... + or -?</i></p>
<p>13) ACT!!</p> <p>If $x = -4$, what is the value of $3x^2 - 15x$?</p> <p>A. -108 B. -12 C. 12 D. 29 E. 108</p>	<p>14) ACT!!</p> <p>If $f(x) = 3x^2 + 5x - 5$, then $f(-2) = ?$</p> <p>F. 21 G. 17 H. 3 J. -3 K. -27</p>

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